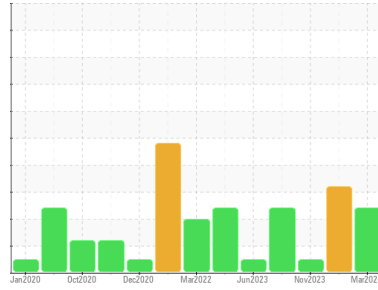




OIL ANALYSIS REPORT

Sample Rating Trend



Area
IBACO [CONHER]
 Machine Id
IBACO BM SONORENSE II AUX-1
 Component
Bottom Diesel Engine
 Fluid
RALYO 15W40 (8 LTR)

DIAGNOSIS

Recommendation
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy 15W40)

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of particulates present in the oil.

Fluid Condition
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KL0014182	KL0014136	KL0013409
Sample Date	Client Info	20 Mar 2024	06 Feb 2024	14 Nov 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	250	174	200
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	ATTENTION	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	▲ 2.2	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >250	42	15	12
Chromium	ppm ASTM D5185m >10	1	<1	<1
Nickel	ppm ASTM D5185m >5	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >35	4	2	2
Lead	ppm ASTM D5185m >100	1	<1	2
Copper	ppm ASTM D5185m >60	<1	0	<1
Tin	ppm ASTM D5185m >5	2	<1	<1
Vanadium	ppm ASTM D5185m	<1	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	0
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	<1
Manganese	ppm ASTM D5185m	<1	<1	0
Magnesium	ppm ASTM D5185m	10	6	5
Calcium	ppm ASTM D5185m	3156	2504	2954
Phosphorus	ppm ASTM D5185m	1077	1041	1229
Zinc	ppm ASTM D5185m	1307	1283	1461
Sulfur	ppm ASTM D5185m	3900	2904	3664

CONTAMINANTS

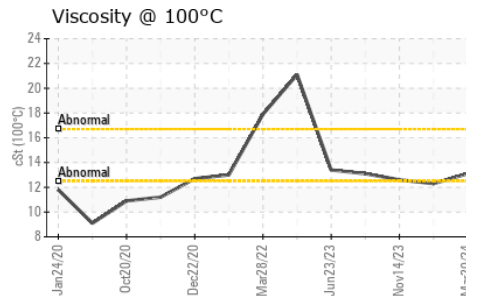
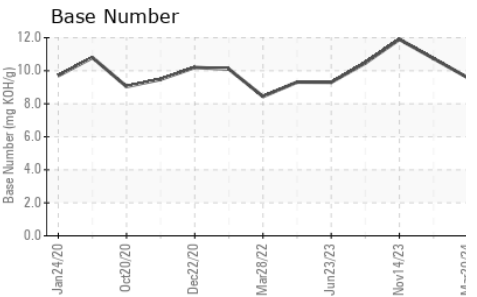
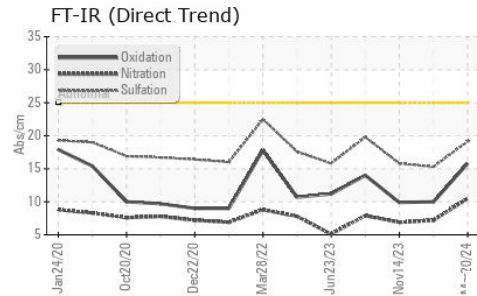
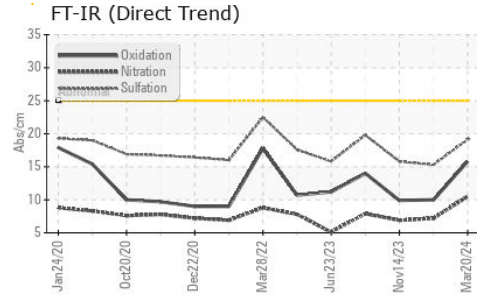
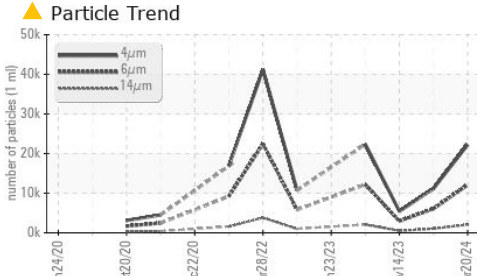
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >35	9	9	9
Sodium	ppm ASTM D5185m	0	0	<1
Potassium	ppm ASTM D5185m >20	<1	2	4

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	10.5	7.2	6.9
Sulfation	Abs/1mm *ASTM D7415 >30	19.1	15.3	15.8



OIL ANALYSIS REPORT



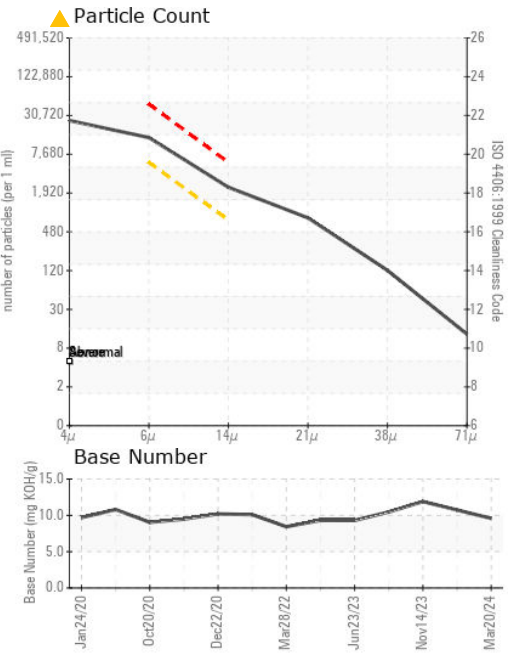
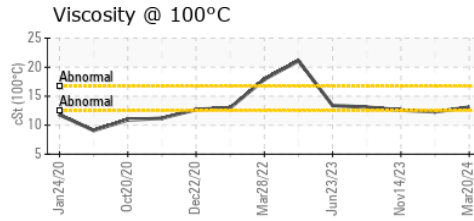
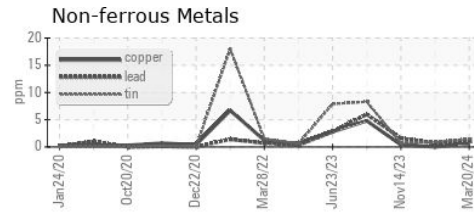
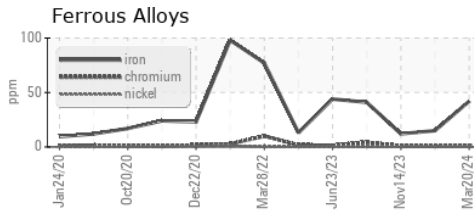
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		22236	11179	5429
Particles >6µm	ASTM D7647	>5000	▲ 12113	6090	2957
Particles >14µm	ASTM D7647	>640	▲ 2062	1036	503
Particles >21µm	ASTM D7647	>160	▲ 694	349	170
Particles >38µm	ASTM D7647	>40	▲ 107	54	26
Particles >71µm	ASTM D7647	>10	▲ 11	6	3
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 21/18	20/17	19/16

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	15.8	10.0	9.9
Base Number (BN)	mg KOH/g ASTM D2896		9.58	10.74	11.90

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual	NONE	NONE	NONE	NONE
Precipitate	scalar *Visual	NONE	NONE	NONE	NONE
Silt	scalar *Visual	NONE	NONE	NONE	NONE
Debris	scalar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	NONE	NONE	NONE
Appearance	scalar *Visual	NORML	NORML	NORML	NORML
Odor	scalar *Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual	>0.2	NEG	NEG	NEG
Free Water	scalar *Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		13.1	▲ 12.3	12.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0014182
 Lab Number : 06153291
 Unique Number : 10983369
 Test Package : MOB 2 (Additional Tests: PrtCount)
 Received : 18 Apr 2024
 Tested : 23 Apr 2024
 Diagnosed : 23 Apr 2024 - Don Baldrige

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

CONOR
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 MX 83140

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